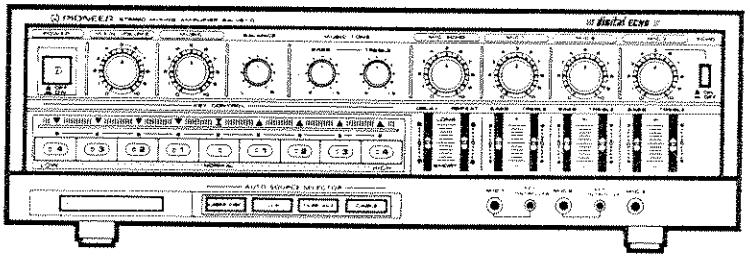
PIONEER
The future of sound and vision.

Operating Instructions
Mode d'emploi
Bedienungsanleitung
Istruzioni per l'uso
Manual de instrucciones

SA-V210

STEREO MIXING AMPLIFIER
AMPLIFICATEUR DE MIXAGE STEREO
STEREO-MIX-VERSTÄRKER
AMPLIFICATORE DI MISSAGGIO STEREOFONICO
AMPLIFICADOR MEZCLADOR ESTEREOFONICO

English
Français
Deutsch
Italiano
Español



WARNING: The apparatus shall not be exposed to dripping or splashing.

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

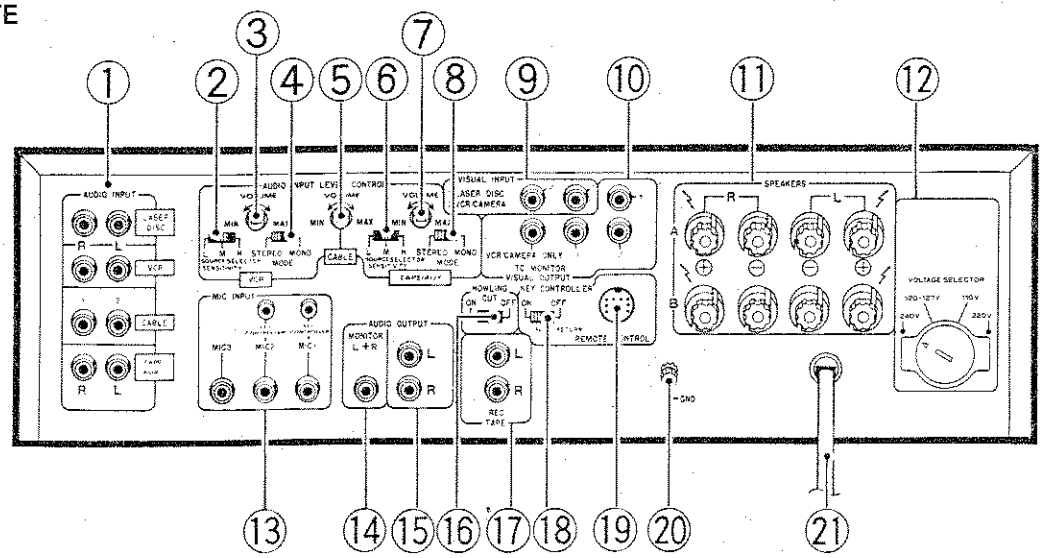
FOR USE IN THE UNITED KINGDOM

WARNING: This plug must only be connected to electronic apparatus equipped with suitable sockets. If not, cut off the plug and fit an appropriate type in accordance with the instructions below.
The cut-off plug must be disposed of as an electrical shock hazard could exist if connected to a socket outlet.

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

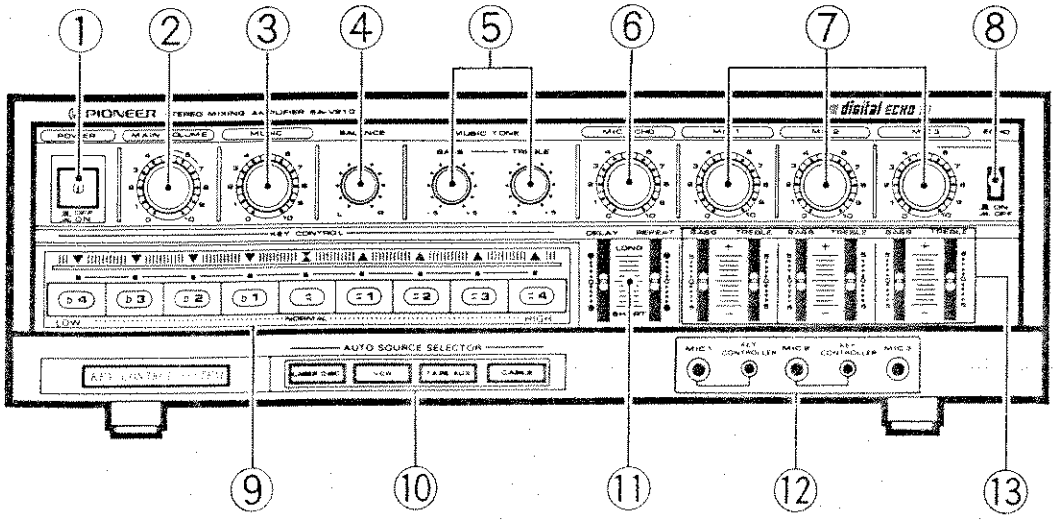
REAR PANEL
PANNEAU ARRIERE
RÜCKSEITE

PANNELLO POSTERIORE
PANEL TRASERO



FRONT PANEL
PANNEAU AVANT
FRONTPLATE

PANNELLO ANTERIORE
PANEL DELANTERO



"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

"Questo apparato è conforme al D.M. 13 Apr. 89 (Dir. 87/308/CEE)".

"Cet article est conforme aux prescriptions de la directive communautaire de la CE nr. 87/308/EEC (arrête du 16/8/89)."

"Este aparato cumple las normas para Interferencias de Radio establecidas por la Directriz de la CE (87/308/EEC)."

"Dieses Produkt entspricht den Funkentstörvorschriften der EG (87/308/EEC)".

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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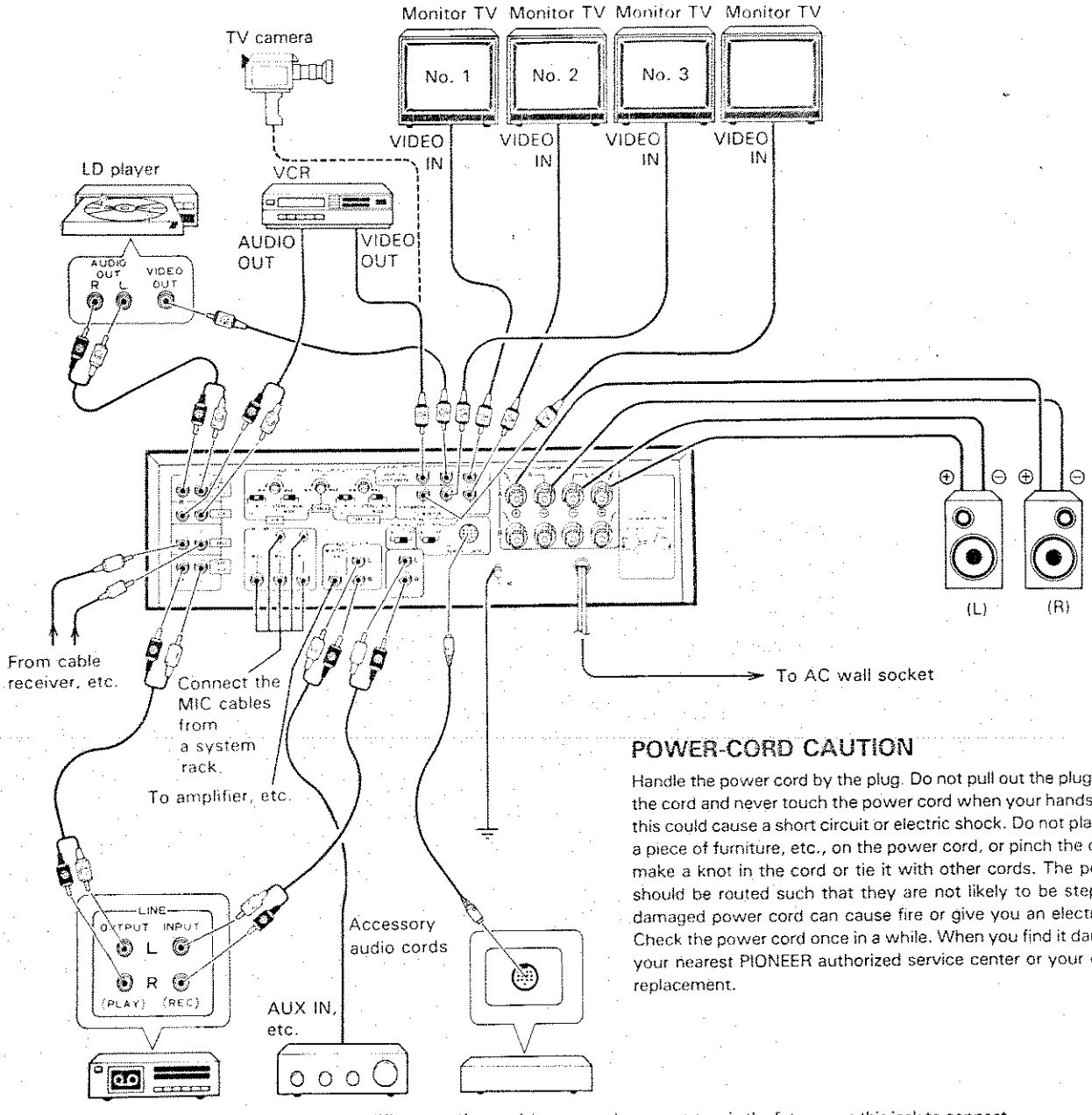
CONNECTIONS



If you wish to upgrade your system in the future, use this jack to connect such components as a Pioneer video disc autochanger commander.

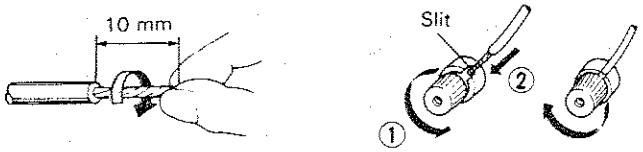
POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

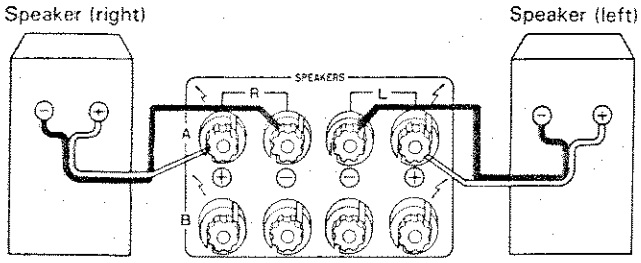
Be sure to switch the power of the stereo amplifier and the stereo component ON only after all connections of stereo system are completed.

Connection of Speaker Cord

Strip off the vinyl coating and put the wire ends together.



1. Loosen the screw and insert the wires into the hole.
2. Tighten the screw and fasten the wires.



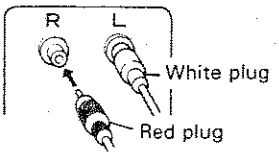
NOTE:
Be careful to avoid wires from sticking out from the terminal and touching other wires, as this might cause malfunction.

Impedance of Speaker System

Speaker systems with a nominal impedance of 4 to 16 Ω can be used when systems A or B are used separately. Use nominal impedance of 8 to 32 Ω when playing both systems simultaneously.

Connection of Input and Output Cords

- Connect white plug to "L" side and red plug to "R" side. Make sure to insert them securely.

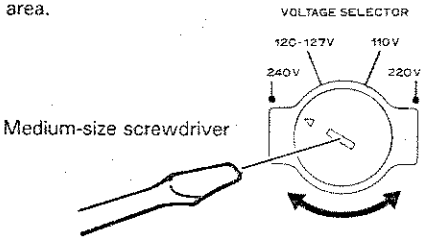


- Insert the pin plug of the connecting cords securely. Incomplete plugging may result in noise or insufficient sound.

LINE VOLTAGE SELECTOR SWITCH

Mains voltages in Saudi Arabia are 127 V and 220 V only. Never use this model with 110 V setting in Saudi Arabia.
Before your model is shipped from the factory, the switch is set to the power requirements of the destination; nevertheless, you should check that they are set properly before plugging the power cord into the AC outlet.

1. Check the power cord disconnected.
2. Use a medium-size screwdriver.
3. Insert the screwdriver into the groove on the voltage selector, and adjust so that the tip of the arrow points to the voltage value of your area.



PANEL FACILITIES

See page 2 for location of Panel Facilities

REAR PANEL

1 AUDIO INPUT jacks

■ **LASERDISC**
Connect to the AUDIO jacks of a LD player.

■ **VCR**
Connect to the AUDIO OUT jacks of a VCR.

■ **CABLE**
For input of monophonic audio signals from cable receivers etc. When both terminals are connected select 1 or 2 using the sending device.

■ **TAPE/AUX**
Can be connected to the PLAY (OUTPUT) jacks of a cassette deck or to the OUTPUT jacks of other audio components.

2 VCR SOURCE SELECTOR SENSITIVITY switch

Switch it for proper operation of the AUTO SOURCE SELECTOR function of the SA-V210. For the AUTO SOURCE SELECTOR function, see page 6.

M : Normal position

L : (When no LASERDISC signal is input.)
If "TAPE/AUX" or "CABLE" terminal is automatically selected even though VCR is being played , set to this position "L" to select VCR.

H : (When no LASERDISC signal is input.)
If "TAPE/AUX" or "CABLE" is not selected even though VCR finishes its playback, set to this position "H" to select "TAPE/AUX" or "CABLE."

3 VCR VOLUME control

Controls the volume of the VCR input terminals sound.
This control is normally centered but should be adjusted in accordance with the volume of the LASERDISC.

4 VCR MODE switch

This switch is used to select the VCR audio modes (MONO/STEREO).
Connect a VCR with monophonic audio output either to "L" or "R" AUDIO INPUT jack and set this switch to "MONO."

5 CABLE VOLUME control

Controls the volume of the CABLE input terminals sound.
This control is normally centered but should be adjusted in accordance with the volume of the LASERDISC.

6 TAPE/AUX SOURCE SELECTOR SENSITIVITY switch

Switch it for proper operation of the AUTO SOURCE SELECTOR function of the SA-V210.

M : Normal position
L : (When neither LASERDISC nor VCR signal is input.)
If "CABLE" is automatically selected even though "TAPE/AUX" signal is being played , set to this position "L" to select "TAPE/AUX."
H : (When neither LASERDISC nor VCR signal is input.)
If AUTO INPUT selector remains at "TAPE/AUX" even though TAPE/AUX finishes its playback, set to this position "H" to select "CABLE."

⑦ TAPE/AUX VOLUME control

Controls the input sound level of devices connected to the TAPE/AUX input jacks. This control is normally centered but should be adjust for LASERDISC.

⑧ TAPE/AUX MODE switch

This switch is used to select audio modes (MONO/STEREO) of components connected to the TAPE/AUX input jacks. Connect a component with monophonic audio output either to "L" or "R" AUDIO INPUT jack and set this switch to "MONO."

⑨ VISUAL INPUT jacks

■ **1 LASERDISC**
Connect to the VIDEO OUT jack of the LD player.
■ **2 VCR/CAMERA**
Connect to the VIDEO OUTPUT jack of the VCR or TV camera.

⑩ VISUAL OUTPUT jacks

■ **1 - 3**
Jacks for connection to the VIDEO INPUT jacks of TV monitors (maximum three monitors).
■ **VCR/CAMERA ONLY**
Signals input to the "VCR/CAMERA" VISUAL INPUT jack of the SA-V210 will always be output. By connecting to a TV monitor, you can monitor a VCR or TV camera.

⑪ SPEAKERS terminals

Two speaker systems (A and B) can be connected. For details, refer to "CONNECTIONS" on page 3.
- Always connect the plus (+) and minus (−) wires of the speakers to the speaker terminals of the same polarity. A polarity error can cause unnatural sound.

⑫ VOLTAGE SELECTOR (See page 4)

⑬ MIC input jacks 1,2,3

Microphones cannot be connected directly to the SA-V210. When placing the SA-V210 into a rack with MIC cords, connect the MIC cords of the rack. When using microphones with key control remote switch connected to MIC 1 and 2, connect the control cords to the KEY CONTROLLER jacks.

If a microphone is connected to the MIC jack on the front panel, front input has priority.

NOTE:
- *Position of the key controller may change by connecting/disconnecting of the remote plug. In such a case, set it again to the desired position.*
- *For the key control function, both front and rear inputs are effective.*

⑭ AUDIO OUTPUT MONITOR L + R jack

The L and R audio signals input to the audio input jacks (LASERDISC, VCR, CABLE, TAPE/AUX) always appear as L + R monaural.

⑮ AUDIO OUTPUT jacks

These jacks are used to output the L and R audio signals to the audio input jacks (LASERDISC, VCR, CABLE, TAPE/AUX) of this unit.

⑯ HOWLING CUT switch

In case of howling, set this switch to "ON."

⑰ TAPE REC jacks

Connect to the REC (INPUT) jacks of a cassette deck. Mic mixing recording will be possible, because signals processed with microphone mixing are output.
When "TAPE/AUX" or "CABLE" has been selected, no sound can be heard.

⑱ KEY CONTROLLER AUTO RETURN switch

ON — When a song is finished, the key controller will automatically return to the standard key (♮).
OFF — The key will only change by key control operation.

⑲ KEY CONTROLLER REMOTE CONTROL jack

- If you wish to upgrade your system in the future, use this jack to connect such components as a Pioneer video disc autochanger commander.

Connect to the remote control terminal of the Pioneer commander capable of controlling the key controller. (Use the controlling cord for key controller supplied with the commander.)
By using the wireless remote controller supplied with the commander, operation of the SA-V210's key controller can be remote-controlled.

⑳ GND (Ground) terminal

Always ground this unit to prevent electrical shock and to avoid generating interference or noise in other equipment.

㉑ Power cord

FRONT PANEL

① POWER switch (■ OFF, ▬ ON)

Pressing this switch turns ON the power for the SA-V210. Pressing this switch again turns OFF the power.

② MAIN VOLUME control

Controls the volume of the sound from the speakers.

③ MUSIC control

Controls the volume of equipments connected to the LASERDISC, VCR, CABLE and TAPE/AUX jacks on the rear panel. Normally, keep the MAIN VOLUME control near the 5 − 7 position and use the MUSIC control to adjust the volume of the music source.

④ BALANCE control

Adjusts the balance between the sound from the left and right.

⑤ MUSIC TONE controls

These control the tones (BASS/TREBLE) of the music source.
BASS: Adjusts the low-frequency tone.
TREBLE: Adjusts the high-frequency tone.

⑥ MIC ECHO control

Controls the echo levels for microphones 1, 2 and 3 simultaneously.

⑦ MIC volume controls (MIC 1, 2 and 3)

To adjust the respective microphones' volume level against the music source.
Normally, keep the MAIN VOLUME control near the 5 – 7 position and use the MIC controls to adjust the volumes.

⑧ MIC 3 ECHO switch (■ ON, ▬ OFF)

This switch controls only the echo for the microphone 3 input. Pressing this switch turns off the echo.

⑨ KEY CONTROL switches/indicators

Press to change the pitch of the music source.

■ ♮
Key for standard setting.

■ ♯1 – ♯4
A maximum raise of four tones above the setting of the standard key is possible in semitone-steps.

■ ♭1 – ♭4
A maximum decrease of four tones below the setting of the standard key is possible in semitone-steps.

NOTE:
No key change is possible when "CABLE" has been selected by the input selector.

⑩ AUTO SOURCE SELECTOR indicators

This unit automatically select the input source signals with priority in the order of LASERDISC, VCR,TAPE/AUX and CABLE. These indicators display the output source accordingly.

⑪ ECHO adjusting controls

Controls the microphone echo characteristics.

■ **DELAY**
Adjusts the echo delay time. Setting higher, the echo intervals become longer, resulting in stronger echo effect.

■ **REPEAT**
Adjusts the echo repeat times. Setting higher, the echo repeat times increase, resulting in stronger echo effect.

NOTE:
- *When the DELAY control is adjusted while using the microphone, the pitch may be changed.*
- *If the REPEAT control is set too high, echo may never stop. In such a case, readjust the REPEAT control.*

⑫ MIC and KEY CONTROLLER jacks

Three microphones can be connected simultaneously.
When using a microphone with key control switch, connect it to MIC 1 or MIC 2 jack. And be sure to connect the control cable to the KEY CONTROLLER jack.

⑬ MIC TONE controls

These controls adjust the tone (BASS/TREBLE) for microphones 1, 2 and 3.
BASS: Adjusts the low-frequency tone.
TREBLE: Adjusts the high-frequency tone.

OPERATION

The numbers following the names of switches and controls in this section correspond to the numbers shown in the "FRONT PANEL."

1. Turn the power ON to the SA-V210 and other components.
- When using an LD player, Turn on the TV monitor.

2. Connect the microphone(s) to the MIC jack(s) ⑫.

3. Set the MAIN VOLUME control ② as desired (e.g. set to 5 – 7).

4. Start playback. Adjust the volume level with the MUSIC control ③ and speaker balance with the BALANCE control ④.

5. Speak or sing with the microphone and adjust the volume level with the MIC volume control ⑦.

6. Adjust the sound with the MUSIC TONE controls ⑤, ECHO adjusting controls ⑪, MIC TONE controls ⑬, and MIC ECHO control ⑥ as desired.

7. Select the desired key with the KEY CONTROL switches ⑨.

AUTO SOURCE SELECTOR

The SA-V210 automatically selects and outputs all input signals according to the following priority.
1 LASERDISC
2 VCR
3 TAPE/AUX
4 CABLE
The input sensitivity of VCR and TAPE/AUX can be changed by the SOURCE SELECTOR SENSITIVITY switch on the rear panel.

Automatic output switching of TV monitor

When the LD player is in stop mode, VIDEO signals from VISUAL INPUT jack 2 (VCR/CAMERA) will be output from the VISUAL OUTPUT jacks 1, 2 and 3 to the monitor.

Fade-in function for cable

When the SA-V210 is switched from LASERDISC, VCR or TAPE/AUX mode to CABLE mode, the fade-in circuit activates and the volume level gradually increases to the level that has been set by the MAIN VOLUME control after approx. 2 to 8 seconds.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Cause	Remedy
No sound from speakers.	• Power is switched OFF. • Power cord is unplugged. • MAIN VOLUME control is set to minimum. • MUSIC VOLUME control is set to minimum.	• Switch the power ON. • Connect the power cord. • Adjust MAIN VOLUME control. • Adjust MUSIC VOLUME control.
No sound from a speaker.	• BALANCE control is set to max. right or left position. • Either plug of the speaker cord is disconnected.	• Set the control to center position. • Connect the plug securely.
Microphone mixing does not operate.	• Microphone is incompletely plugged. • Microphone is operated incorrectly. • MIC volume control is set to minimum. • Microphone's switch is set to OFF.	• Plug the microphone completely to the terminal. • See the Operation Instructions of the microphone. • Adjust with the MIC volume control. • Set the microphone's switch to ON.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this unit, since these will corrode the surfaces.

SPECIFICATIONS

AMPLIFIER SECTION

DIN continuous power output
1 kHz, 1 %, 4 Ω ..... 120 W + 120 W
Dynamic power (2 Ω) ..... 170 W
Total Harmonic Distortion
(AUX IN, 1 kHz, 60 W, 8 Ω) ..... 0.1 %*
Input Terminal (Sensitivity/Impedance)
Audio
MIC ..... 2.5 mV/25 kΩ
VCR, TAPE/AUX ..... 75 mV/50 kΩ
LASERDISC, CABLE ..... 150 mV/50 kΩ
Video
LASERDISC, VCR/CAMERA ..... 1 Vp-p/75 Ω
Output Terminal (Output level/Output impedance)
Audio
MONITOR L + R, L, R ..... 150 mV/5 kΩ
TAPE REC L, R ..... 150 mV/2.2 kΩ
Video
MONITOR, VCR/CAMERA ..... 1 Vp-p/75 Ω
Speakers Terminal
A or B ..... 4 to 16 Ω
A and B ..... 8 to 32 Ω
Frequency Response
MIC ..... 100 Hz to 20 kHz ±3 dB
LASEDISC, CABLE, VCR, TAPE/AUX
..... 10 Hz to 60 kHz ±3 dB
Tone Control (Music/Mic)
BASS ..... ±12 dB/±12 dB (100 Hz)
TREBLE ..... ±10 dB/±10 dB (10 kHz)
Echo delay time/decay time ..... 150 to 300 msec/0~4 sec
Key Control Range ..... ± 2 musical intervals (9 positions)
Signal to Noise Ratio (DIN, continuous power/50 mW)
MIC ..... 50 dB/50 dB
LASERDISC, CABLE, VCR, TAPE, TAPE/AUX ..... 78 dB/60 dB

Power Supply, Others

Power requirements ..... AC 110/120 – 127/220 /240 V (Switchcable), 50/60 Hz
Power consumptions ..... 525 W
Dimensions ..... 420 (W) x 130 (H) x 410 (D) mm
Weight (without package) ..... 13.0 kg

Accessories

Audio cords 1
Operating instructions 1

- *Specifications and design subject to possible modification without notice due to improvement.*

* *Measured by Audio Spectrum Analyzer.*

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